

## Use & Care Guide

Model: 5729581



# Natural Gas Conversion Kit

**This Natural Gas Conversion Kit can be used ONLY with Dual Fuel™ grills.**



If you have questions or need assistance during assembly, please call 1-800-241-7548 (USA) or 1-800-387-6057 (Canada)  
To insure your satisfaction and for follow-up service, **register your grill online at [www.grillregistration.com](http://www.grillregistration.com)**



## DANGER



If you smell gas:

1. Shut off gas to the appliance.
2. Extinguish any open flame.
3. Open lid.
4. If odor continues, keep away from the appliance and immediately call your gas supplier or your fire department.



## WARNING



1. Do not store or use gasoline or other flammable liquids or vapors in the vicinity of this or any other appliance.
2. An LP Tank not connected for use shall not be stored in the vicinity of this or any other appliance.

**Call the Grill Information Center for Help and Parts**  
Missing Parts? Assembly Questions? Operation Problems?  
Before returning grill to store, call **1-800-241-7548**



## WARNING



Do not attempt to repair or alter this conversion kit for any assumed defect. Any modification to this assembly will void your warranty and create the risk of a gas leak and fire. Use only authorized replacement parts supplied by manufacturer.

To Installer/Assembler: Leave these instructions with consumer.

To Consumer: Keep this manual for future reference.



## CAUTION



Some parts may contain sharp edges, especially as noted in these instructions.  
Wear protective gloves if necessary.



## CAUTION



For residential use only. Do not use for commercial cooking.



## WARNING



### CALIFORNIA PROPOSITION 65

1. Combustion by-products produced when using this product contain chemicals known to the State of California to cause cancer, birth defects, and other reproductive harm.
2. This product contains chemicals, including lead and lead compounds, known to the State of California to cause cancer, birth defects or other reproductive harm.

Wash your hands after handling this product.

### Safety Symbols

The symbols and boxes shown below explain what each heading means. Read and follow all of the messages found throughout the manual.



## DANGER



**DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



## WARNING



**WARNING:** Be alert to the possibility of serious bodily injury if the instructions are not followed. Be sure to read and carefully follow all of the messages.



## CAUTION



**CAUTION:** Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.



## WARNING



- Read and follow all Safety, Assembly, and Use and Care Instructions in this Guide before assembling and cooking with this grill.
- Failure to follow all instructions in this Use and Care Guide may lead to fire or explosion, which could result in property damage, personal injury or death.

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## USE & CARE

### Natural Gas Connections and Service Regulators Above 1/2 psi.

Prior to 1998, all residential gas service regulators were set with an outlet pressure of 7 inches water column.

In the 1998 edition of NFPA 54, the National Fuel Gas Code, a change was made allowing service regulators of 2 and 5 psi.

With this change it was also required that an in line regulator be connected between the service regulator and the appliance regulator if the 2 or 5 psi system is used. This additional regulator is not supplied with the product.

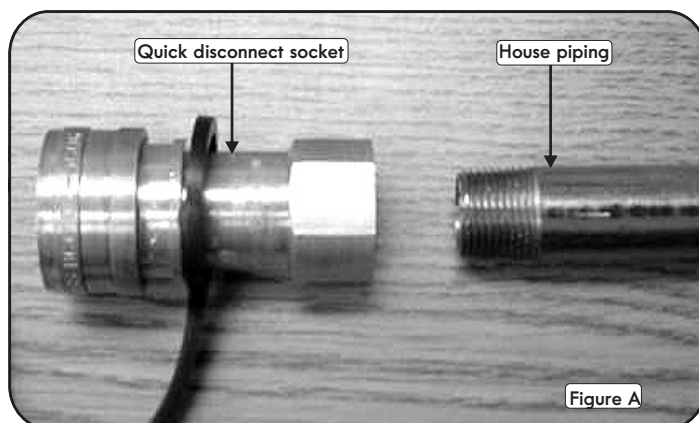
It is possible for a consumer, making the connection themselves, or a plumber, not checking, to tap into a 2 or 5 psi line. If a pressure of 2 psi or greater is supplied to the appliance regulator on certain grills it will shut down and not deliver any gas to the grill. The included quick disconnect socket and hose should not be used at pressures above 1/2 psi.

If the quick disconnect socket, hose, and grill are properly connected and still not getting gas, delivery pressure needs to be verified. If pressure is greater than 1/2 psi, make sure that an in line regulator is present.

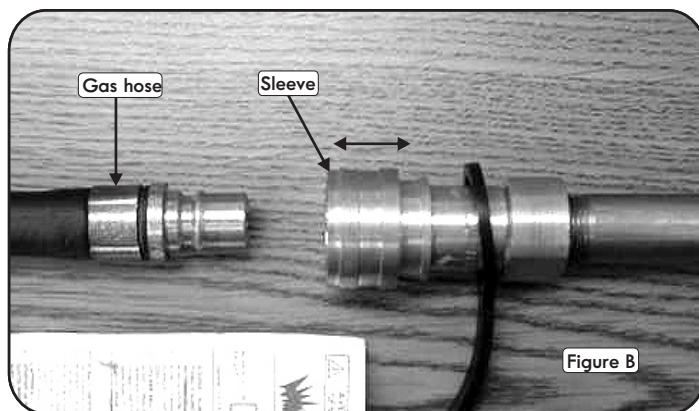
Once the grill has been over-pressured, the regulator may or may not have been damaged. The best practice is to replace the regulator.

### CONNECTING YOUR GRILL TO THE NATURAL GAS SOURCE:

1. A professionally-installed shut-off valve between the supply piping and the socket is recommended, but not required, by the National Fuel Gas Code. Socket connection must be made outdoors.
2. Coat the gas supply pipe nipple with gas resistant pipe dope or approved teflon tape. Screw socket onto gas supply pipe (house gas source) as shown in Figure A below, and wrench-tighten.



3. Pull back the sleeve on the quick disconnect socket and insert the unattached end of the gas hose into the socket. Release the sleeve and continue pushing the hose into the socket until the sleeve snaps into the locked position. See Figure B.

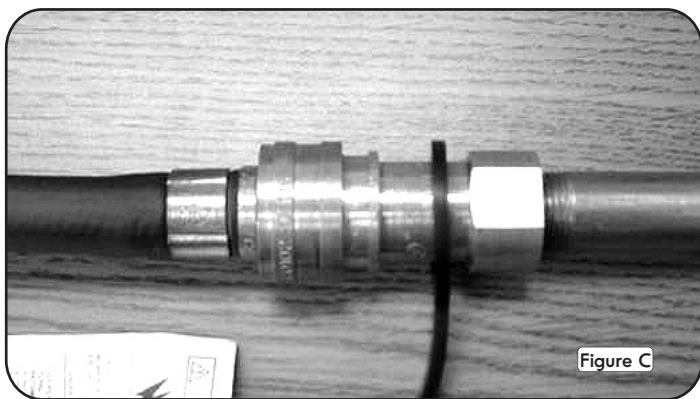


4. When the quick disconnect socket and the gas hose are connected, a valve in the socket opens automatically to permit full gas flow. When the gas hose is disconnected, the valve in the socket instantly and positively shuts off the flow of gas. Because the valve in the socket positively shuts off the flow of gas, the grill can be disconnected from the gas source by disconnecting the gas hose from the quick disconnect socket. The socket should be left attached to the gas source (house piping). Figure C shows properly connected hose and socket.



**Do not use hard metal piping of any kind to connect this type of grill to natural gas source. Use only hose specified by manufacturer. Using hard metal piping or convoluted metal tubing is an unsafe practice. Movement of the grill can cause breakage of metal pipe.**

## USE AND CARE CON'T.



With proper assembly, the gas hose cannot be removed without pushing the quick disconnect sleeve back. To disconnect, push sleeve back and pull plug out of sleeve (this automatically shuts off gas).

Please Note: Hose and assembly are C.S.A. listed for natural gas, manufactured gas, mixed gas and for liquefied petroleum and for LP Gas-Air mixtures on basis of 0.64 specific gravity for 1000 BTU's per cubic foot of gas at 0.3 in. water column pressure drop. Only ANSI Z21.54 approved hoses should be used with this grill.

The appliance and its individual shut off valve must be disconnected from the gas supply piping system during any pressure testing on that system at test pressures in excess of 1/2 psig (3.5kPa).

The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psi (3.5kPa).

## PARTS LIST

Key	Qty.	Description	Part No.
A	5	Main & Sideburner Natural Gas Bezel	3499466
B	1	Orifice Driving Tool	80004378
C	1	10 ft., 3/8" Natural Gas Hose	3496263
D	3	Natural Gas Orifice (Black Dot-# 54)	80007767
E	1	Natural Gas Orifice (Red Dot-1.45mm)	80007768
F	4	Natural Gas Orifice (White Dot-1.30mm)	3499688
G	4	Natural Gas Orifice (Orange Dot-1.25mm)	3499248

Note: Illustrations are not to scale.



A



B



C



#54  
Black Dot

D



1.45mm  
Red Dot

E



1.30mm  
White Dot

F



1.25mm  
Orange Dot

G

Tools required for assembly:

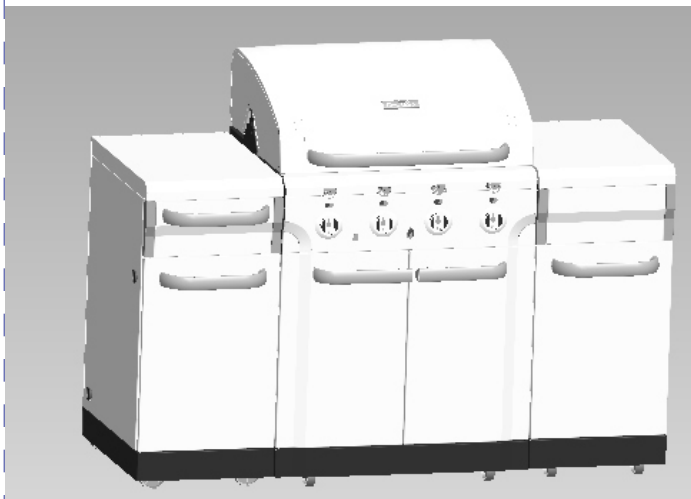
Orifice Driving Tool - Provided

Adjustable Wrench - Not Provided

Standard #2 Phillips Screwdriver - Not Provided

NOTE: Magnetic tip screwdrivers are recommended, but not required.

**Model 463269411**



For Conversion Use Sections:

A, B

Parts Required:

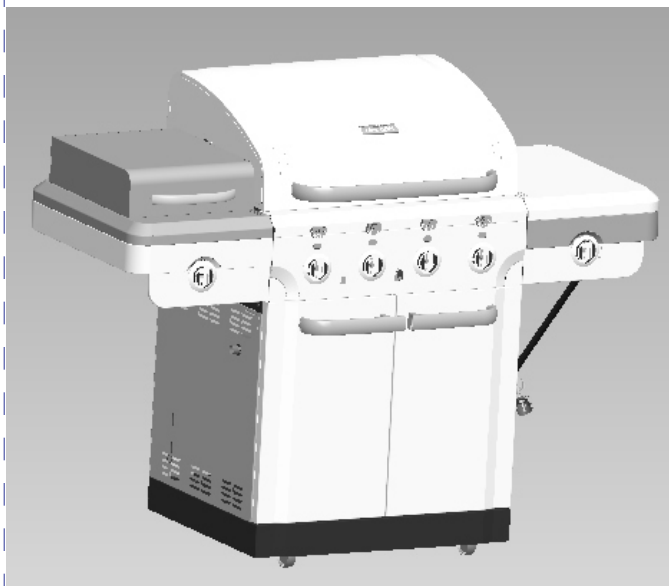
4- Bezels

1 -10' Hose

1-Orifice Driving Tool

4-1.25mm Orifices (Orange Dot)

**Model 463269311**



For Conversion Use Sections:

A, C, E

Parts Required:

5 - Bezels

1 - 10' Hose

1 - Orifice Driving Tool

4 - 1.30mm Orifices (White Dot)

1 - 1.45mm Orifice (Red Dot)

**Model 463269211**



For Conversion Use Sections:

A, D, E

Parts Required:

4 - Bezels

1 - 10' Hose

1 - Orifice Driving Tool

3 - #54 Orifices (Black Dot)

1 - 1.45 Orifice (Red Dot)

**Model 463269111**



For Conversion Use Sections:

A, D, E

Parts Required:

4 - Bezels

1 - 10' Hose

1 - Orifice Driving Tool

3 - #54 Orifice (Black Dot)

1 - 1.45MM (Red Dot)

## Model 463269011



For Conversion Use Sections:

A, F

Parts Required:

2- Bezels

1 -10' Hose

1-Orifice Driving Tool

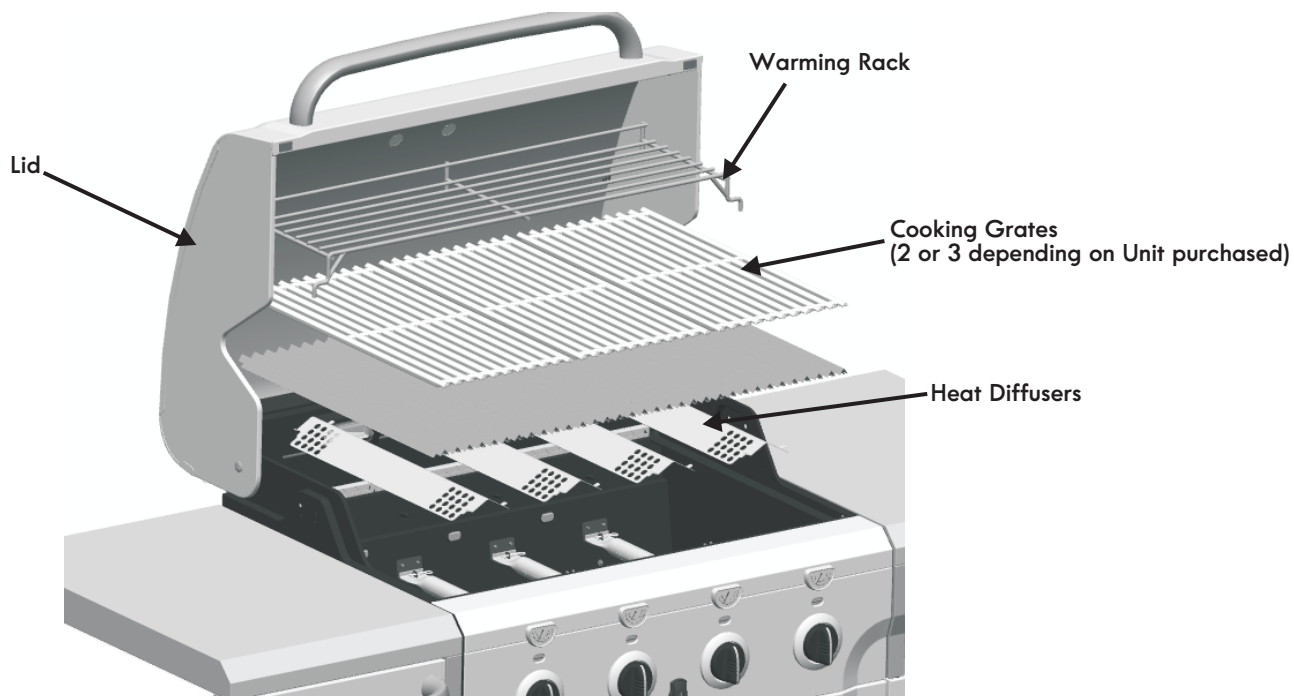
## Section A

### A1

First, make sure all Control Knobs are in the OFF position, LP tank valve is closed, and Tank is disconnected from Regulator and removed from Grill.

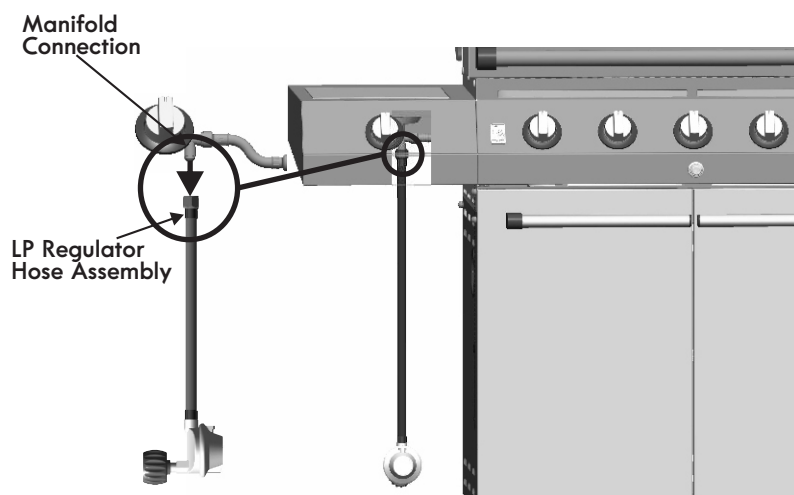
Next, open Lid and remove Warming Rack, Cooking Grates, and Heat Diffusers.

Your Grill may differ from illustrations shown. This manual covers a variety of grills styles, use pictures as reference only.



### A2

Using a wrench (not provided) remove LP Regulator Hose Assembly from Manifold Connection. Save removed LP Regulator Hose assembly for converting back to LP Tank Gas. Your LP Regulator hose will be located under the Sideburner Shelf.

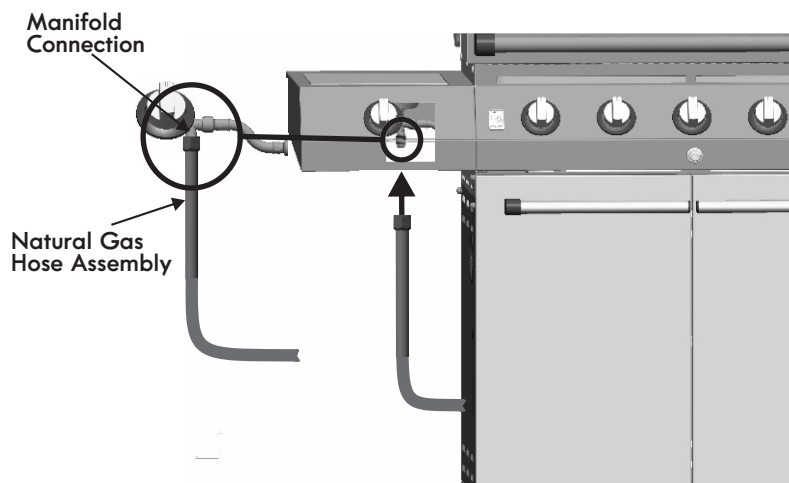




**A3**

Position Natural Gas Hose Assembly behind cart up to Manifold Connection.

Secure the Natural Gas Hose Assembly, to Manifold Connection, using a wrench (not provided).



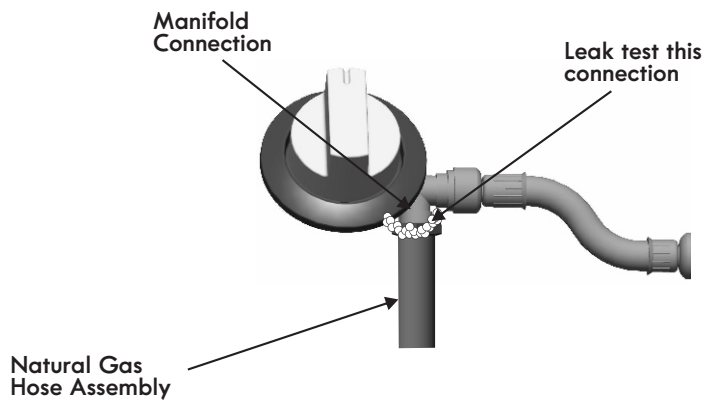
**A4**

## Leak Testing Natural Gas Hose

Turn all grill knobs to OFF.

Brush soapy solution onto areas where bubbles are shown in picture.

If “growing” bubbles appear, there is a leak. Retighten connections. If leak cannot be stopped do not try to repair. Call Char-Broil for replacement parts.





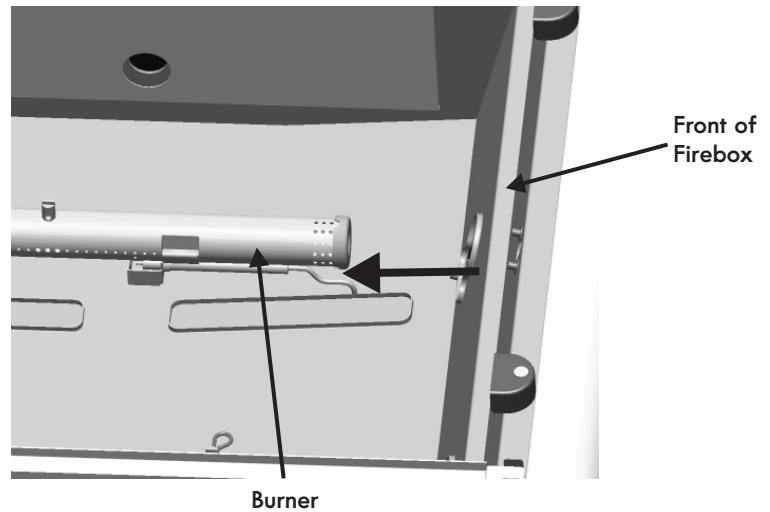
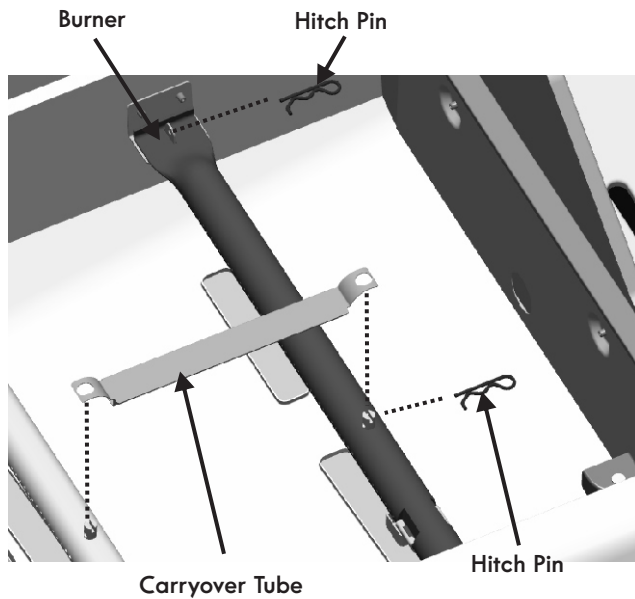
## Section B

### B1

Remove Hitch Pins and remove Carryover Tubes.

Remove Hitch Pins at back of Burners to detach Burners from Burner Brackets.

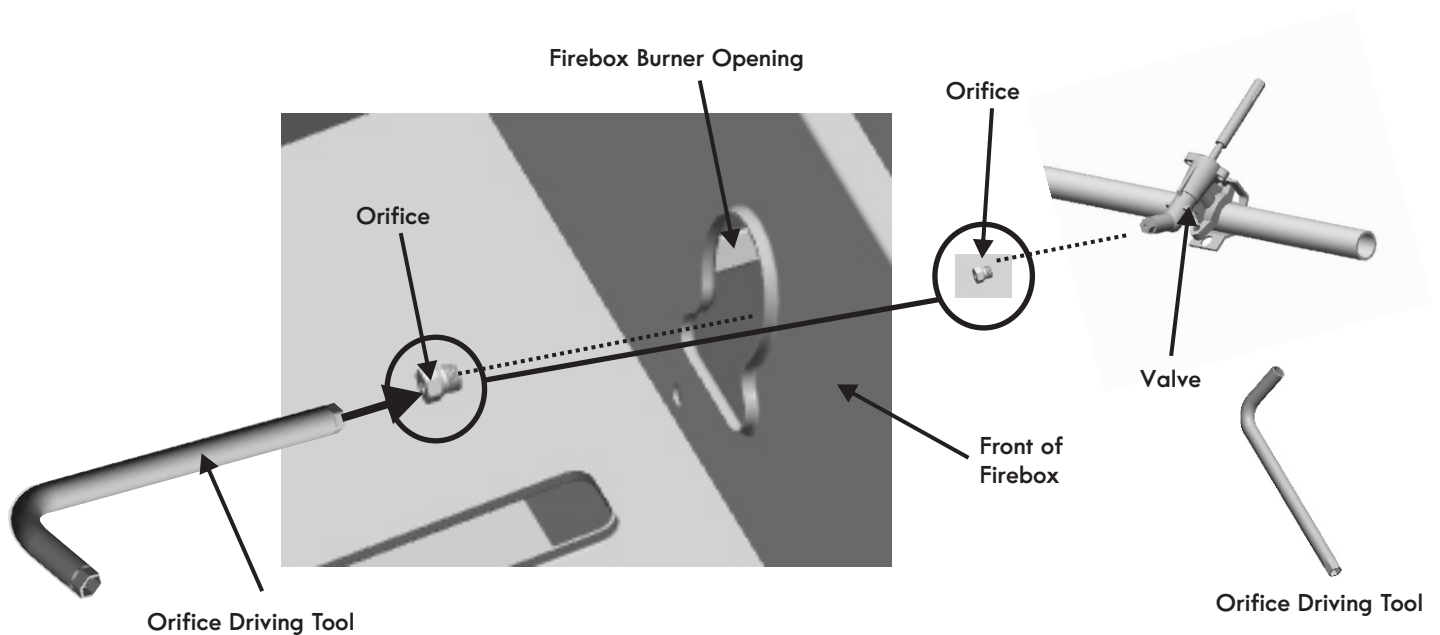
Lift back of Burner while sliding Burner out of Firebox, disengaging burners from Valves.



### B2

Insert Orifice Driving Tool into Firebox Burner openings and unscrew Orifices from ends of Valves. Save removed orifices for converting back to LP Tank Gas.

Replace with natural gas Orifices provided with Kit (1.25mm-Orange Dot) and tighten to valve end, ensure Orifice is not cross threaded.



## Section B Con't.

B3



### WARNING



Bezels must be replaced one at a time. Removing more than one bezel at a time may cause misalignment of manifold.

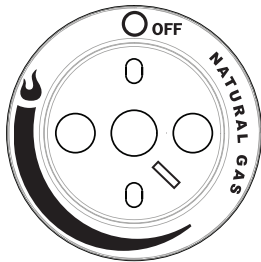
Pull the Tube Burner Control Knob off of Valve Stem.

Remove two Screws and two Washers that secure Bezel to the Control Panel. Save removed Bezel for converting back to LP Tank Gas.

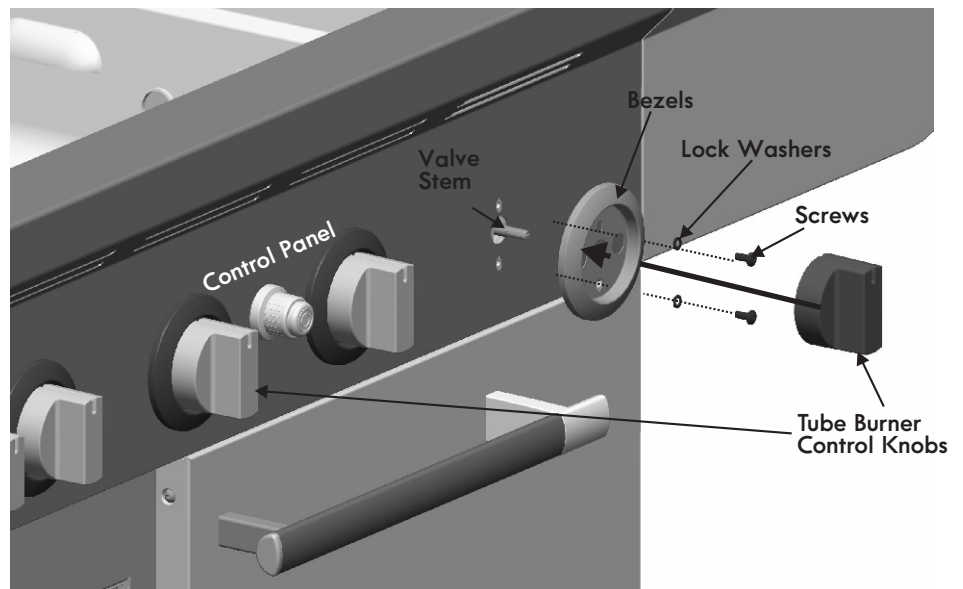
Install new Natural Gas Bezel provided with Kit (see illustration below) in place of old Bezel onto Control Panel, and secure using previously removed Screws and Washers. Assure proper alignment with control knob before fully tightening. Note: New bezels will change the rotation for the control knob to properly control ignition and flames for your grill.

Press Control Knob back onto Valve Stem. Make adjustments needed to Bezel for free movement of Control Knob

Repeat for each Bezel.



Bezel

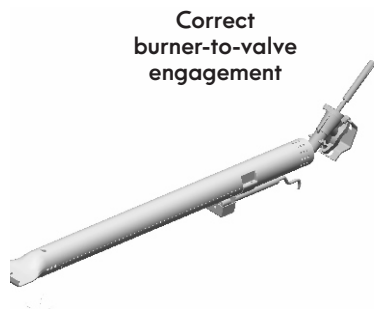


B4

### Reinstall Tube Burners

Insert Tube Burners into Firebox Burner holes over Valves with Ignitor Assembly downward, making sure Tube Burner engages Valve properly. See diagram below.

Secure Tube Burners to Burner Brackets with previously removed Hitch Pins. Replace Carryover tubes and secure with Hitch Pins previously removed. Reference illustration B1.



Tube Burner



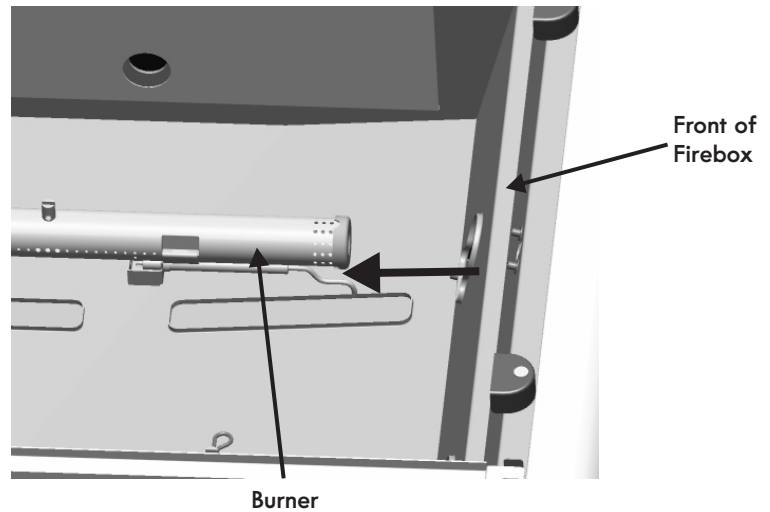
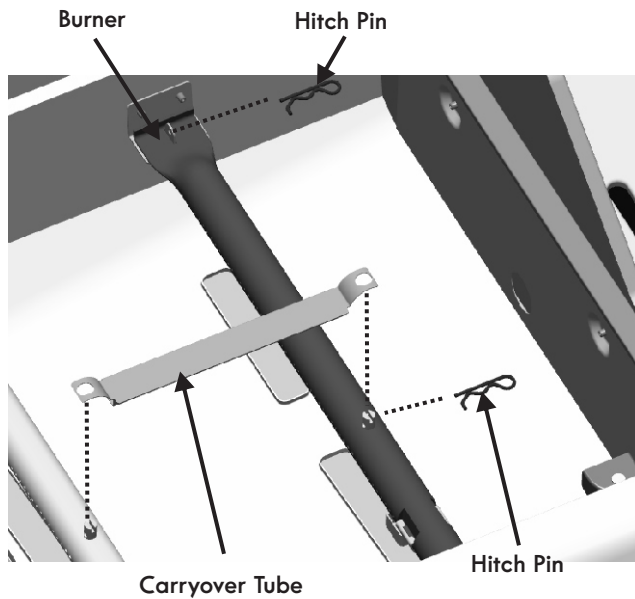
## Section C

### C1

Remove Hitch Pins and remove Carryover Tubes.

Remove Hitch Pins at back of Burners to detach Burners from Burner Brackets.

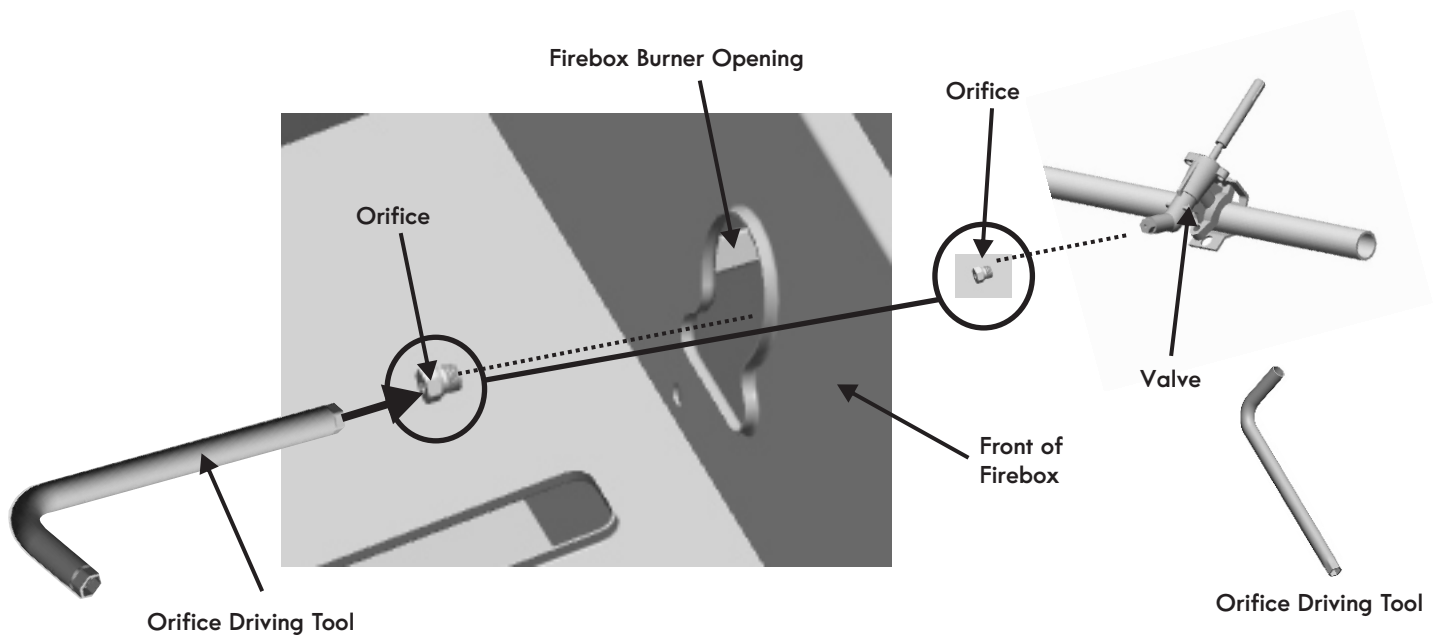
Lift back of Burner while sliding Burner out of Firebox, disengaging burners from Valves.



### C2

Insert Orifice Driving Tool into Firebox Burner openings and unscrew Orifices from ends of Valves. Save removed orifices for converting back to LP Tank Gas.

Replace with natural gas Orifices provided with Kit (1.30mm-White Dot) and tighten to valve end, ensure Orifice is not cross threaded.



## Section C Con't.

C3



### WARNING



Bezels must be replaced one at a time. Removing more than one bezel at a time may cause misalignment of manifold.

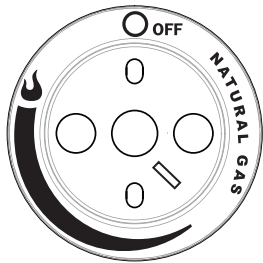
Pull the Tube Burner Control Knob off of Valve Stem.

Remove two Screws and two Washers that secure Bezel to the Control Panel. Save removed Bezel for converting back to LP Tank Gas.

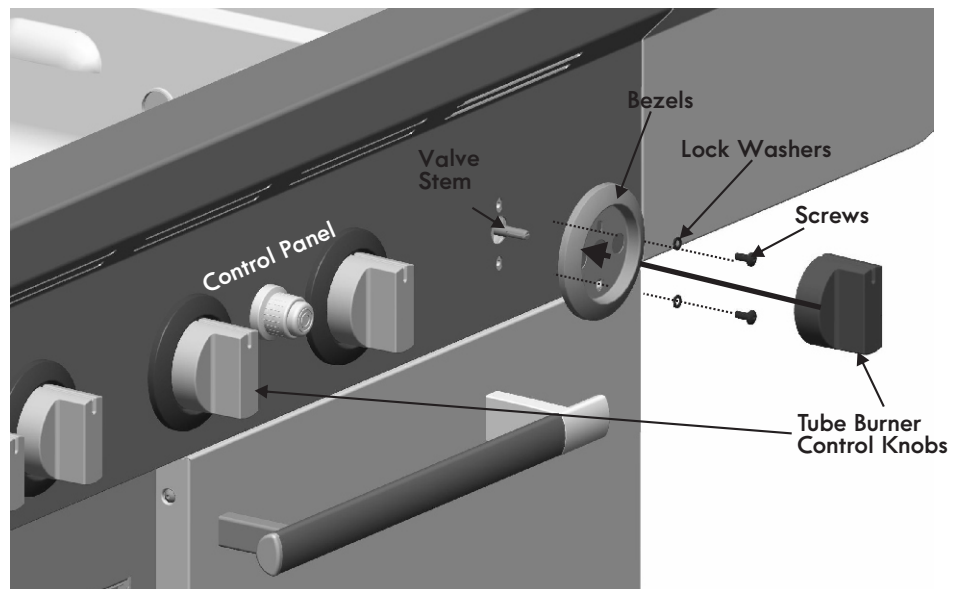
Install new Natural Gas Bezel provided with Kit (see illustration below) in place of old Bezel onto Control Panel, and secure using previously removed Screws and Washers. Assure proper alignment with control knob before fully tightening. Note: New bezels will change the rotation for the control knob to properly control ignition and flames for your grill.

Press Control Knob back onto Valve Stem. Make adjustments needed to Bezel for free movement of Control Knob

Repeat for each Bezel.



Bezel

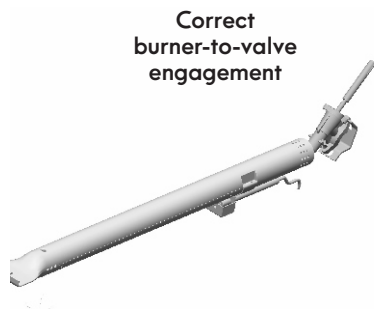


C4

### Reinstall Tube Burners

Insert Tube Burners into Firebox Burner holes over Valves with Ignitor Assembly downward, making sure Tube Burner engages Valve properly. See diagram below.

Secure Tube Burners to Burner Brackets with previously removed Hitch Pins. Replace Carryover tubes and secure with Hitch Pins previously removed. Reference illustration B1.



Tube Burner



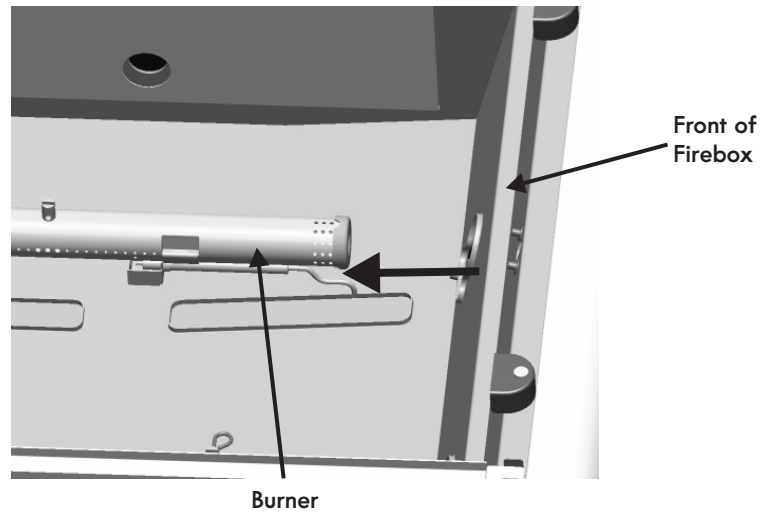
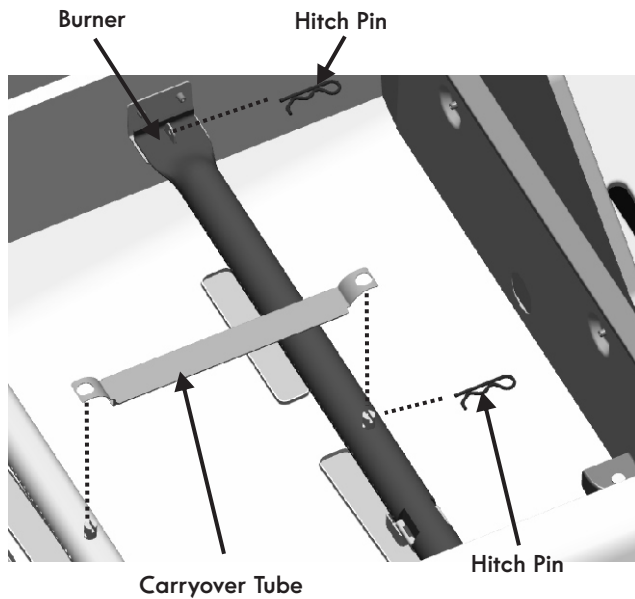
## Section D

### D1

Remove Hitch Pins and remove Carryover Tubes.

Remove Hitch Pins at back of Burners to detach Burners from Burner Brackets.

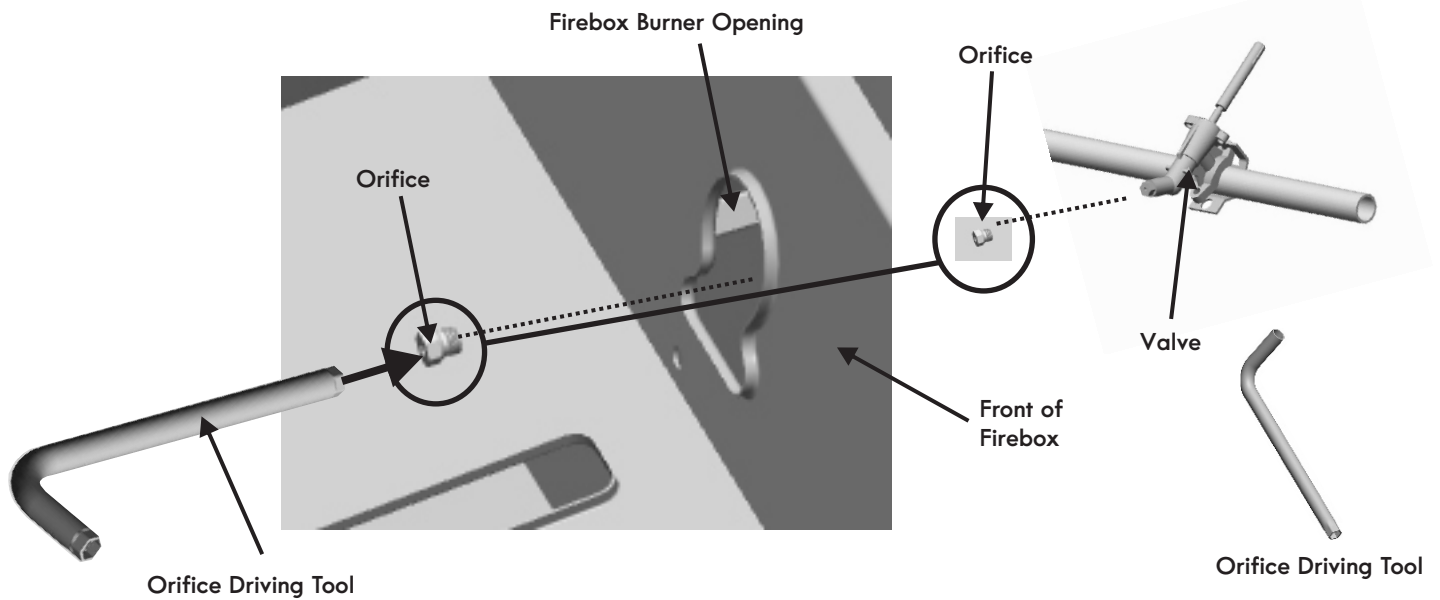
Lift back of Burner while sliding Burner out of Firebox, disengaging burners from Valves.



### D2

Insert Orifice Driving Tool into Firebox Burner openings and unscrew Orifices from ends of Valves. Save removed orifices for converting back to LP Tank Gas.

Replace with natural gas Orifices provided with Kit (#54 Black Dot) and tighten to valve end, ensure Orifice is not cross threaded.



## Section D Con't.

D3



### WARNING



Bezels must be replaced one at a time. Removing more than one bezel at a time may cause misalignment of manifold.

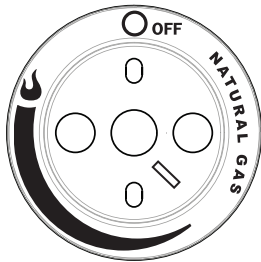
Pull the Tube Burner Control Knob off of Valve Stem.

Remove two Screws and two Washers that secure Bezel to the Control Panel. Save removed Bezel for converting back to LP Tank Gas.

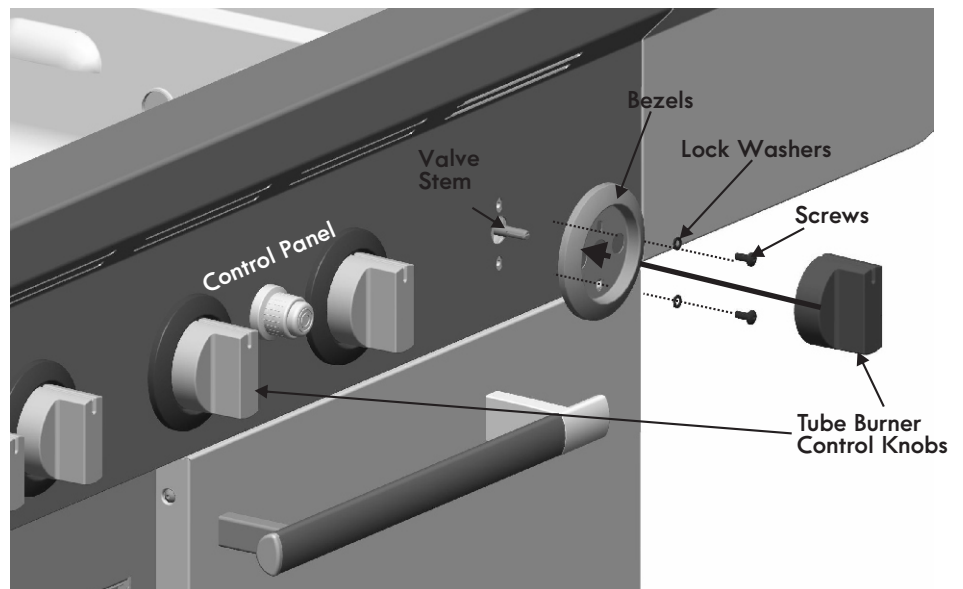
Install new Natural Gas Bezel provided with Kit (see illustration below) in place of old Bezel onto Control Panel, and secure using previously removed Screws and Washers. Assure proper alignment with control knob before fully tightening. Note: New bezels will change the rotation for the control knob to properly control ignition and flames for your grill.

Press Control Knob back onto Valve Stem. Make adjustments needed to Bezel for free movement of Control Knob

Repeat for each Bezel.



Bezel

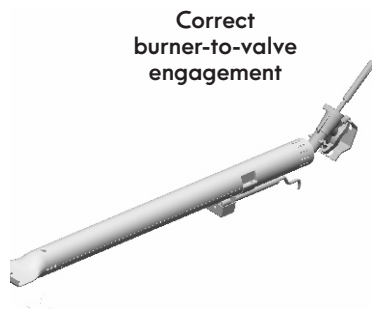


D4

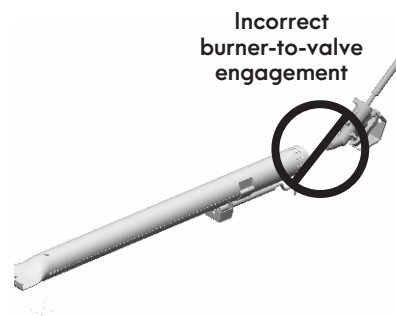
### Reinstall Tube Burners

Insert Tube Burners into Firebox Burner holes over Valves with Ignitor Assembly downward, making sure Tube Burner engages Valve properly. See diagram below.

Secure Tube Burners to Burner Brackets with previously removed Hitch Pins. Replace Carryover tubes and secure with Hitch Pins previously removed. Reference illustration C1.



Tube Burner



## Section E

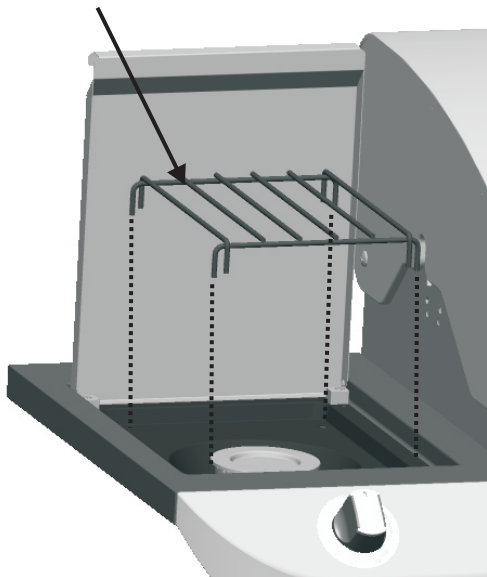
### E1

Open Sideburner Lid and remove the Sideburner Grate.

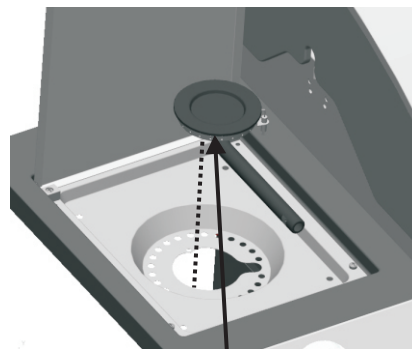
From beneath Sideburner Shelf, remove Wingnut.

Remove Sideburner from Shelf.

Sideburner Grate



Wingnut

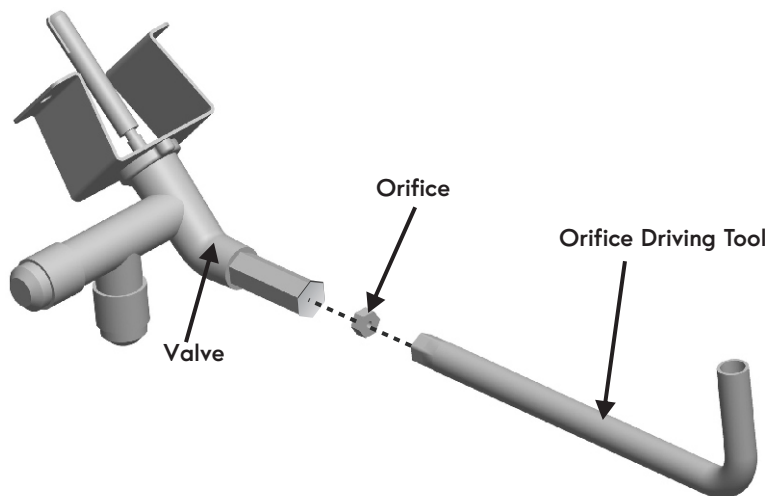


Sideburner

### E2

Using the provided Orifice Driving Tool, unscrew the Orifice from the end of the Sideburner Valve. Save removed Orifice and Orifice Driving Tool for converting back to LP.

Replace with natural gas Orifice provided with Kit (1.45mm Red Dot) and tighten to valve end, ensure Orifice is not cross threaded.



Orifice Driving Tool

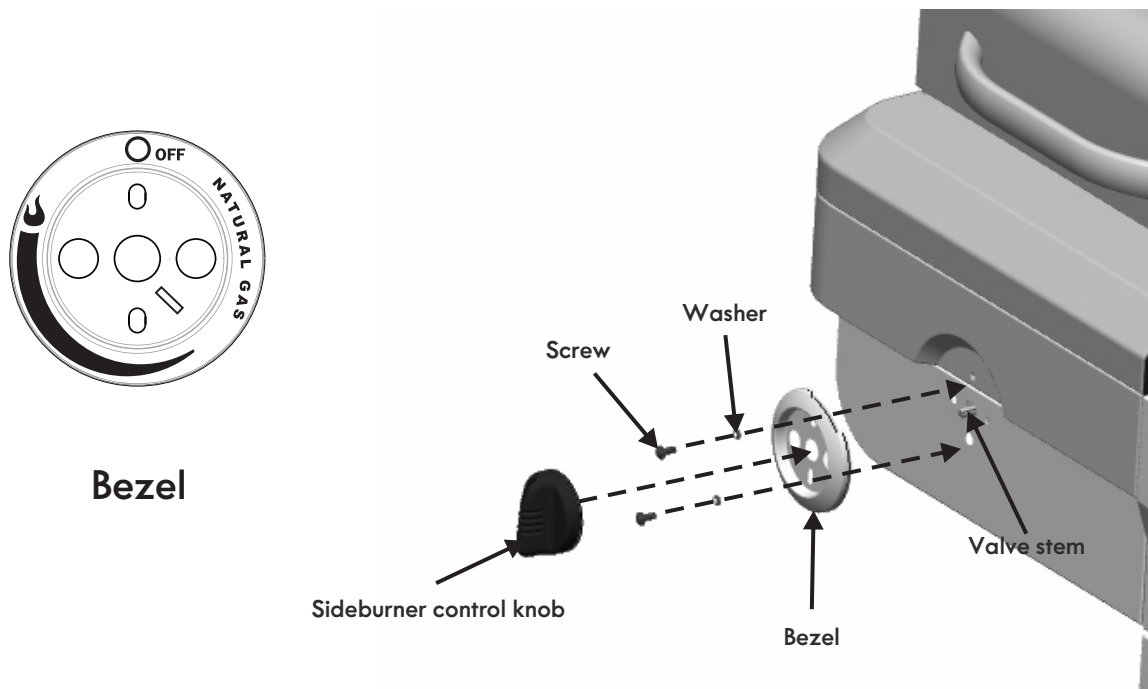


## Section E Con't.

### E3

Pull the Sideburner Control Knob off of Valve Stem. Remove the existing Bezel by removing the two Screws and two Washers securing bezel to Shelf fascia. Save removed Bezel for converting back to LP Tank Gas.

Install new Natural Gas Bezel (see illustration below) and press Control Knob back onto Valve Stem.

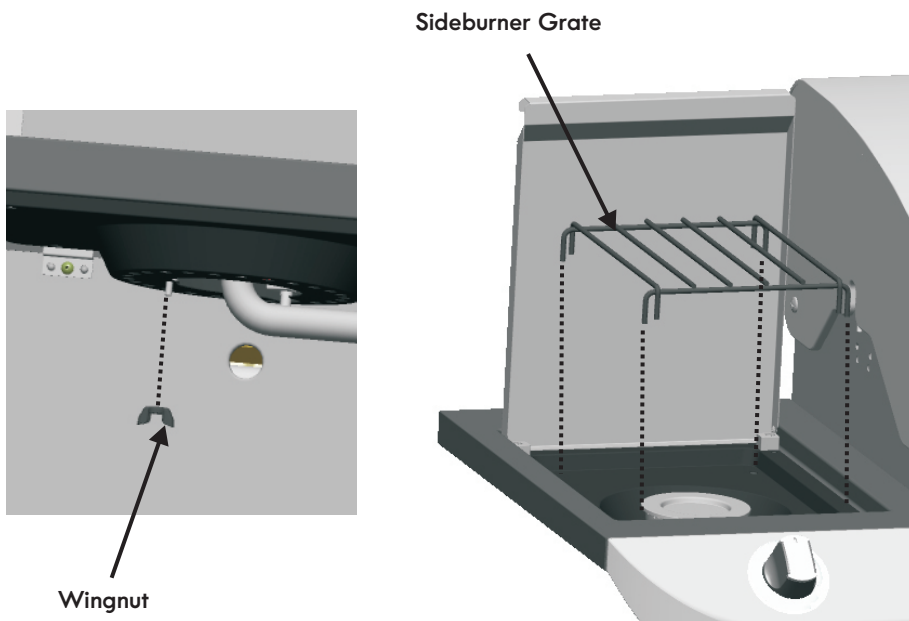
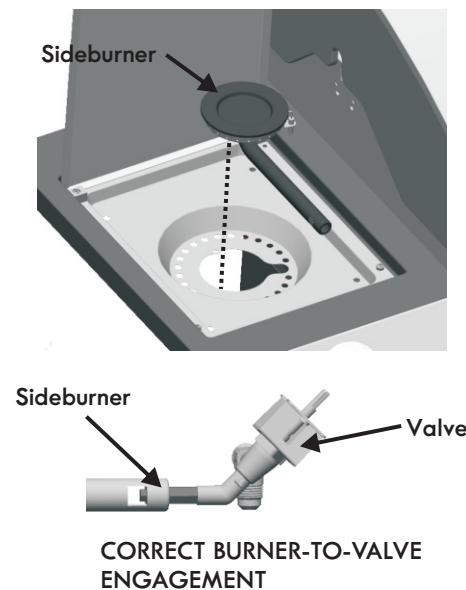


### E4

Return Sideburner to Shelf. Make sure Burner engages Sideburner Valve. See illustration below for correct burner-to-valve engagement.

Secure Burner to Shelf with Wingnut.

Place Sideburner Grate onto Sideburner Pan.



Reinstall Heat Diffusers, Cooking Grates and Warming Rack, reference illustration Section A1. for reinstallation.

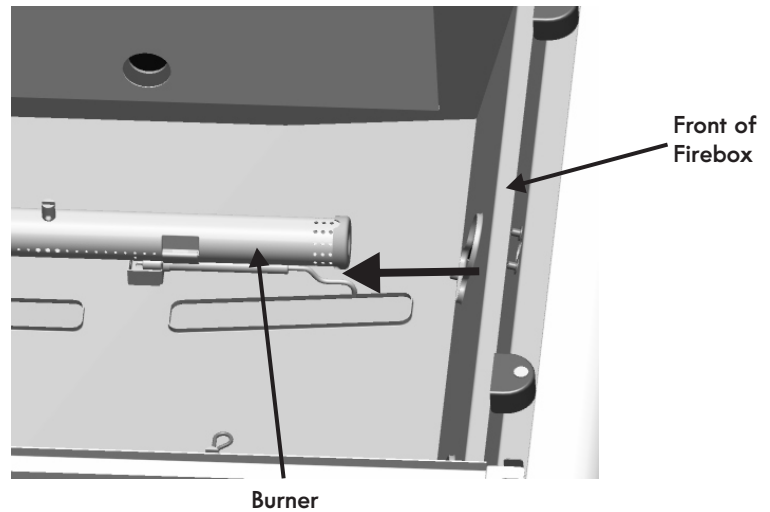
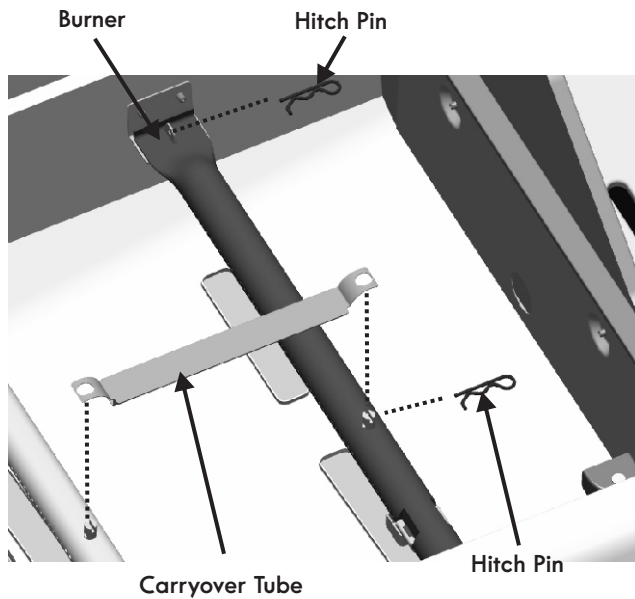
## Section F

### F1

Remove Hitch Pins and remove Carryover Tubes.

Remove Hitch Pins at back of Burners to detach Burners from Burner Brackets.

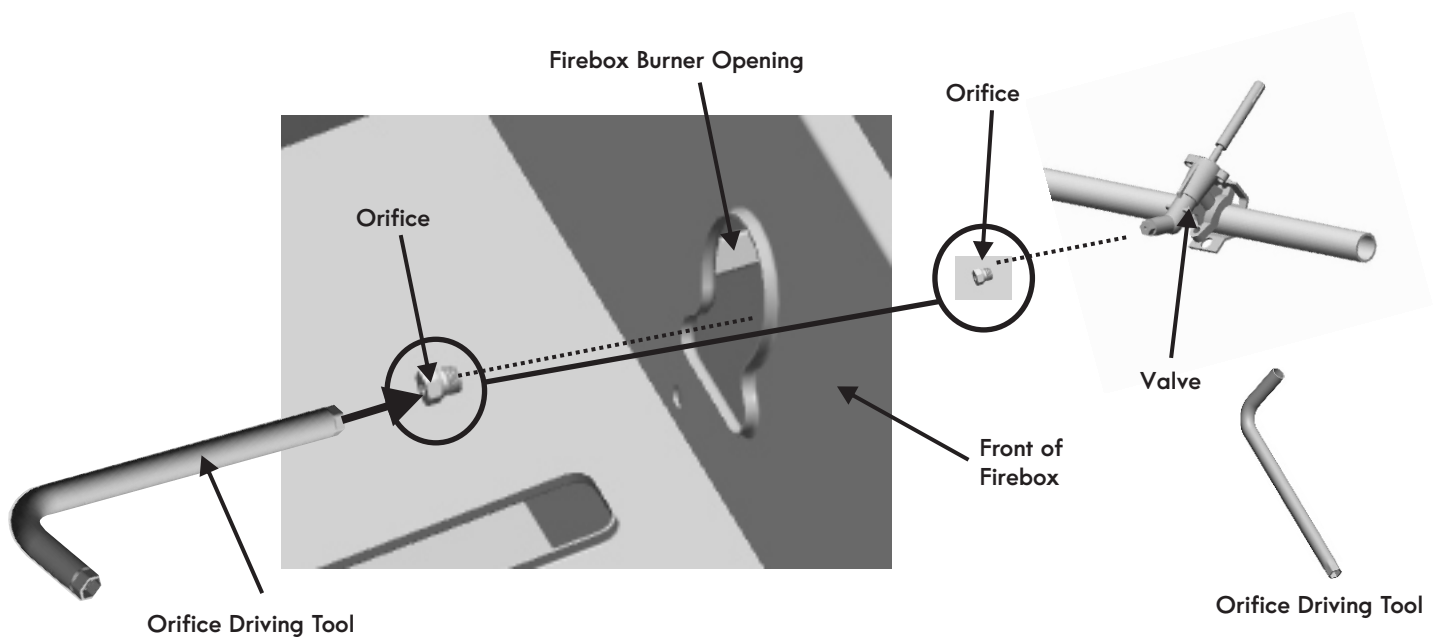
Lift back of Burner while sliding Burner out of Firebox, disengaging burners from Valves.



### F2

Insert Orifice Driving Tool into Firebox Burner openings and unscrew Orifices from ends of Valves. Save removed orifices for converting back to LP Tank Gas.

This grill is designed to work with Natural Gas once Orifices are removed. No replacement Orifice is necessary.



## Section F Con't.

F3



### WARNING



Bezels must be replaced one at a time. Removing more than one bezel at a time may cause misalignment of manifold.

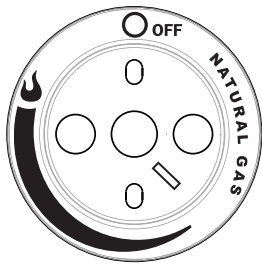
Pull the Tube Burner Control Knob off of Valve Stem.

Remove two Screws and two Washers that secure Bezel to the Control Panel. Save removed Bezel for converting back to LP Tank Gas.

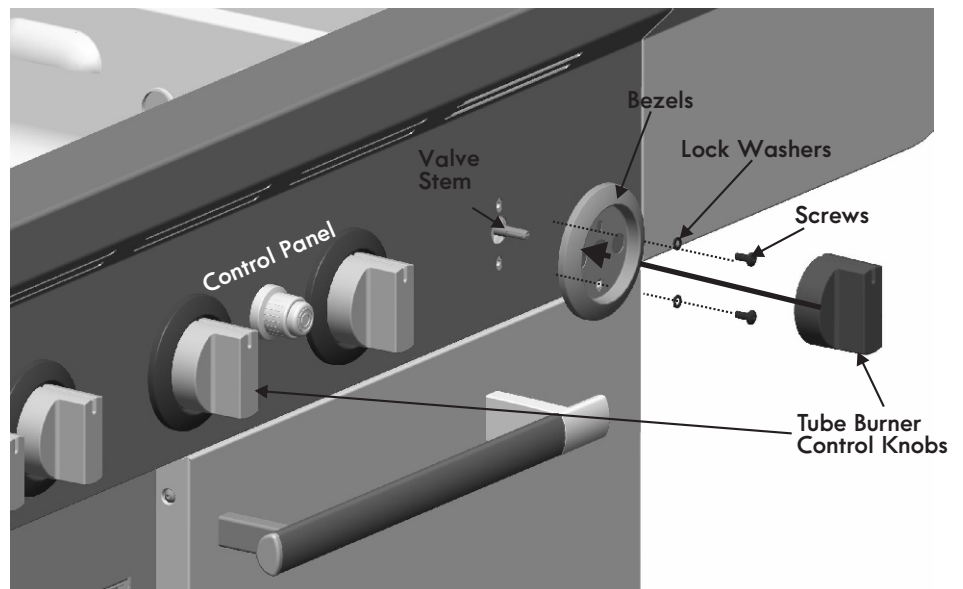
Install new Natural Gas Bezel provided with Kit (see illustration below) in place of old Bezel onto Control Panel, and secure using previously removed Screws and Washers. Assure proper alignment with control knob before fully tightening. Note: New bezels will change the rotation for the control knob to properly control ignition and flames for your grill.

Press Control Knob back onto Valve Stem. Make adjustments needed to Bezel for free movement of Control Knob

Repeat for each Bezel.



Bezel

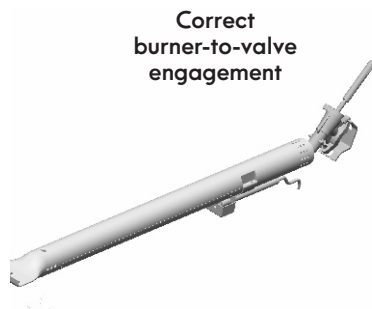


F4

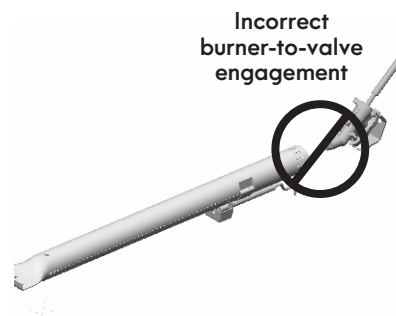
### Reinstall Tube Burners

Insert Tube Burners into Firebox Burner holes over Valves with Ignitor Assembly downward, making sure Tube Burner engages Valve properly. See diagram below.

Secure Tube Burners to Burner Brackets with previously removed Hitch Pins. Replace Carryover tubes and secure with Hitch Pins previously removed. Reference illustration B1.



Tube Burner



## TROUBLESHOOTING

**EMERGENCIES:** If a gas leak cannot be stopped, or a fire occurs due to gas leakage, call the fire department.

Emergencies	Possible Cause	Prevention/Solution
Gas leaking from cracked/cut/burned hose.	<ul style="list-style-type: none"> <li>Damaged hose.</li> </ul>	<ul style="list-style-type: none"> <li>Turn off gas at source. If anything but burned, replace parts. If burned, discontinue use of product until a plumber has investigated cause and corrections are made.</li> </ul>

### Troubleshooting

Problem	Possible Cause	Prevention/Solution
Burner(s) will not light using ignitor.	<b>GAS ISSUES:</b> <ul style="list-style-type: none"> <li>No gas flow.</li> </ul>	<ul style="list-style-type: none"> <li>Make sure gas hose is properly connected to grill. If hose is properly connected, make sure gas source is turned on.</li> </ul>
Burner(s) will not match light.	<ul style="list-style-type: none"> <li>See "GAS ISSUES:" .</li> <li>Match will not reach.</li> <li>Improper method of match-lighting.</li> </ul>	<ul style="list-style-type: none"> <li>Use long-stem match (fireplace match).</li> <li>See "Match-Lighting" section of Grill Use and Care.</li> </ul>
Flames blow out.	<ul style="list-style-type: none"> <li>Natural gas valve not fully open.</li> <li>Inadequate gas pressure.</li> </ul>	<ul style="list-style-type: none"> <li>Open Natural Gas Valve to full open position.</li> <li>Call gas company.</li> </ul>

NOTES: